

INTERNATIONAL SEARCH REPORT

PCT/PTO 27 JAN 2005

International Application No.

EP 02/08526

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01S3/30 H04B10/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01S H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 058198 A (FREEMAN MICHAEL J ;DEWILDE CARL A (US); ISLAM MOHAMMED N (US); XTE) 25 July 2002 (2002-07-25) abstract page 2, line 30 -page 3, line 3 page 28, line 9 -page 29, line 15; claims 1,6,7,19,2 page 32, line 7 - line 10 claims 1-7,17-21	1-19
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 21, 3 August 2001 (2001-08-03) & JP 2001 109026 A (NIPPON TELEGR & TELEPH CORP), 20 April 2001 (2001-04-20) cited in the application abstract	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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Date of the actual completion of the international search

28 March 2003

Date of mailing of the international search report

11/04/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KRUMMRICH P M ET AL: "Bandwidth limitations of broadband distributed Raman fiber amplifiers for WDM systems" OFC 2001. OPTICAL FIBER COMMUNICATION CONFERENCE AND EXHIBIT. TECHNICAL DIGEST POSTCONFERENCE EDITION (IEEE CAT. 01CH37171), OFC 2001. OPTICAL FIBER COMMUNICATION CONFERENCE AND EXHIBITION. TECHNICAL DIGEST, ANAHEIM, CA, USA, 17-22 MARCH 2001, pages MI3/1-3 vol.1, XP002236358 2001, Washington, DC, USA, Opt. Soc. America, USA ISBN: 1-55752-655-9 cited in the application figure 3</p>	1
A	<p>FLUDGER C R S ET AL: "Fundamental noise limits in broadband Raman amplifiers" OFC 2001. OPTICAL FIBER COMMUNICATION CONFERENCE AND EXHIBIT. TECHNICAL DIGEST POSTCONFERENCE EDITION (IEEE CAT. 01CH37171), OFC 2001. OPTICAL FIBER COMMUNICATION CONFERENCE AND EXHIBITION. TECHNICAL DIGEST, ANAHEIM, CA, USA, 17-22 MARCH 2001, pages MA5/1-3 vol.1, XP002236359 2001, Washington, DC, USA, Opt. Soc. America, USA ISBN: 1-55752-655-9 cited in the application figure 1</p>	1

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02058198	A	25-07-2002	US 2002063948 A1	30-05-2002
			WO 02058198 A2	25-07-2002
			US 2002044335 A1	18-04-2002
JP 2001109026	A	20-04-2001	NONE	